



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.12	10/09/2018 10/09/2018	Sterling York

LM Start	0.01	Rating **	A	Issue No.	11
LM End	4.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.980182°	38.970629°
				-121.470263°	-121.534464°
DWR ID	DWR_RD1001_01_f_2018_11				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD1001\_36\_11\_20181113\_00020.jpg



View looking upstream landside at the well maintained annual vegetation, Fall 2018.

LM Start	0.01	Rating **	A	Issue No.	12
LM End	4.11	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.980182 °	38.970629 °
				-121.470263 °	-121.534464 °
DWR ID	DWR_RD1001_01_f_2018_12				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD1001\_36\_12\_20181113\_00019.jpg



View looking upstream waterside at the well maintained annual vegetation, Fall 2018.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.12	10/09/2018 10/09/2018	Sterling York

LM Start	3.09	Rating **	A	Issue No.	19
LM End	3.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.965660 °	38.965660 °
				-121.520548 °	-121.520548 °
DWR ID	DWR_RD1001_01_s_2016_19				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Limbs are removed from stump for access and visibility, Fall 2018.					

Photo 1 of 2 : FA\_2018\_RD1001\_36\_19\_20181113\_00021.jpg



View of a tree that limbs are trimmed and trunk sprayed to prevent any future growth, Fall 2018.

LM Start	<b>3.09</b>	Rating **	A	Issue No.	<b>19 (cont)</b>
LM End	<b>3.09</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA\_2018\_RD1001\_36\_19\_20180918\_00013.jpg



View of a tree that need limbs trimmed. Fall 2017.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	10/09/2018 10/09/2018	Sterling York

LM Start	0.00	Rating **	A	Issue No.	7
LM End	3.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.971221°	38.965811°
				-121.474027°	-121.533591°
DWR ID	DWR_RD1001_02_f_2018_7				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD1001\_35\_7\_20181113\_00028.jpg



View looking downstream landside at the well maintained annual vegetation, Fall 2018.

LM Start	0.00	Rating **	A	Issue No.	8
LM End	3.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.971222°	38.965811°
				-121.474028°	-121.533591°
DWR ID	DWR_RD1001_02_f_2018_8				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD1001\_35\_8\_20181113\_00029.jpg



View looking downstream waterside at the well maintained annual vegetation, Fall 2018.

LM Start	0.32	Rating **	C	Issue No.	14
LM End	0.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.974542°	38.974542°
				-121.477438°	-121.477438°
DWR ID	DWR_RD1001_02_s_2018_14				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Tree has its limbs trimmed for access and visibility, Fall 2018.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side    N/A : Not Applicable		A : Acceptable		Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable		Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable		En : Enforcement	
		N : Not Inspected/Rated			
		C : Corrected			
		A/W : Acceptable but Monitor & Maintain			



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	10/09/2018 10/09/2018	Sterling York

LM Start	1.33	Rating **	M	Issue No.	4
LM End	1.36	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.969740 °	38.969640 °
				-121.494327 °	-121.494829 °
DWR ID	DWR_RD1001_02_f_2018_4				
Comment Code					
Inspector Comment					
2017 Site ID: YAS 1.7 L					
Status: Eroding					
2017 Field Notes: No observed change.					
Site History: 2011 - New erosion site. Steep eroding slope. Fairly old scarp with vegetation growth.					

No Photos

LM Start	2.28	Rating **	M	Issue No.	55	
LM End	2.28	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			38.967403 °		38.967403 °
				-121.510953 °		-121.510953 °
DWR ID	22543					
Comment Code						
Inspector Comment						
FS_ID:14008 DS_ID:22543 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/23/2013 - slide gate in inlet pipe on landside - pits on pipe due to corrosion (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 15 feet below the crown. Flap gate and concrete U-shaped headwall at outfall on the waterside (WS) end. Slide gate at inlet on the landside (LS) end. (Reclamation District No. 1001). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 141.1, August 1955, (Station 67+75)]. FS Date: 5/23/2013						

Photo 1 of 3 : UCIP\_FA\_2018\_14008\_23108.jpg



WS- overview of waterside of the levee.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	--	---

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

### Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	10/09/2018 10/09/2018	Sterling York

LM Start	2.28	Rating **	M	Issue No.	55 (cont)	
LM End	2.28	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.967403 °	38.967403 °	
				-121.510953 °	-121.510953 °	
DWR ID	22543					
Comment Code						
Inspector Comment						
FS_ID:14008 DS_ID:22543 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/23/2013 - slide gate in inlet pipe on landside - pits on pipe due to corrosion (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 15 feet below the crown. Flap gate and concrete U-shaped headwall at outfall on the waterside (WS) end. Slide gate at inlet on the landside (LS) end. (Reclamation District No. 1001). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 141.1, August 1955, (Station 67+75)]. FS Date: 5/23/2013						

LM Start	<b>2.28</b>	Rating **	M	Issue No.	<b>55 (cont)</b>
LM End	<b>2.28</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_14008\_23107.jpg



WS- outfall pipe with flap gate in concrete wing wall.

Photo 3 of 3 : UCIP\_FA\_2018\_14008\_23106.jpg



LS- slide gate in inlet pipe structure

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	10/09/2018 10/09/2018	Sterling York

LM Start	3.58	Rating **	C	Issue No.	24
LM End	3.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			38.965345 °	38.965345 °
				-121.532615 °	-121.532615 °
DWR ID	DWR_RD1001_02_f_2016_24				
Comment Code					
Inspector Comment					
Stockpiled flood fight material has been removed. Fall 2018.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	10/10/2018 10/10/2018	Sterling York

LM Start	0.01	Rating **	A	Issue No.	14
LM End	12.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.006570 °	38.941182 °
				-121.375115 °	-121.567543 °
DWR ID	DWR_RD1001_03_f_2018_14				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD1001\_37\_14\_20181113\_00041.jpg



View looking downstream landside at the well maintained annual vegetation, Fall 2018.

LM Start	0.01	Rating **	A	Issue No.	15
LM End	12.57	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.006570 °	38.941182 °
				-121.375116 °	-121.567543 °
DWR ID	DWR_RD1001_03_f_2018_15				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD1001\_37\_15\_20181113\_00042.jpg



View looking downstream waterside at the well maintained annual vegetation, Fall 2018.

LM Start	0.11	Rating **	C	Issue No.	2
LM End	0.11	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.006569 °	39.006569 °
				-121.377037 °	-121.377037 °
DWR ID	DWR_RD1001_03_f_2013_2				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Rutting caused by vehicles driving up the landward levee slope has been repaired and no sign of slope damage, Fall 2018.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side    N/A : Not Applicable		A : Acceptable		Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable		Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable		En : Enforcement	
		N : Not Inspected/Rated			
		C : Corrected			
		A/W : Acceptable but Monitor & Maintain			



# Reclamation District No. 1001 Nicolaus

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable	A : Acceptable                      N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable            C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable                      A/W : Acceptable but Monitor & Maintain	En : Enforcement

## Reclamation District No. 1001 Nicolaus

Page 3 of 9

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	10/10/2018 10/10/2018	Sterling York

LM Start	4.06	Rating **	A/W	Issue No.	24
LM End	4.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.991370 °	38.991370 °
				-121.444351 °	-121.444351 °
DWR ID	DWR_RD1001_03_f_2016_24				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries bushes have been trimmed up for access and visibility, Spring 2018.					

No Photos

LM Start	4.65	Rating **	A/W	Issue No.	58
LM End	4.65	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.991551 °	38.991551 °
				-121.455092 °	-121.455092 °
DWR ID	DWR_RD1001_03_s_2012_58				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries bushes have been trimmed up for access and visibility, Spring 2018.					

No Photos

LM Start	4.82	Rating **	A/W	Issue No.	910
LM End	4.82	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.990773 °	38.990773 °
				-121.458203 °	-121.458203 °
DWR ID	DWR_RD1001_03_s_2012_910				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries bushes have been trimmed up for access and visibility, Spring 2018.					

No Photos

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	10/10/2018 10/10/2018	Sterling York

LM Start	5.81	Rating **	C	Issue No.	32
LM End	5.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.985882 °	38.985882 °
				-121.475394 °	-121.475394 °
DWR ID	DWR_RD1001_03_f_2016_32				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
The small starter trees less than 4" in diameter have been removed, Fall 2018.					

No Photos

LM Start	7.22	Rating **	M	Issue No.	13
LM End	7.31	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.982737 °	38.982572 °
				-121.501144 °	-121.502797 °
DWR ID	DWR_RD1001_03_f_2018_13				
Comment Code					
Inspector Comment					
2017 Site ID: BER 5.7 L					
Status: Eroding					
2017 Field Notes: Minor new erosion observed.					
Site History: 2008 - Sandy/silty banks with rotational slab failures					
creating near vertical bank with pop-outs due to tree failures. Narrow					
berm.					

Photo 1 of 1 : FA\_2018\_RD1001\_37\_13\_20181114\_00013.jpg



USACE 2013 Photo #1

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	10/10/2018 10/10/2018	Sterling York

LM Start	7.72	Rating **	M	Issue No.	25
LM End	7.72	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.980342°	38.980342°
				-121.509712°	-121.509712°
DWR ID	DWR_RD1001_03_s_2018_25				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Remove fallen tree from levee slope, Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD1001\_37\_25\_20180918\_00014.jpg



View looking downstream waterside of a fallen tree that needs to be removed.

LM Start	8.36	Rating **	C	Issue No.	23
LM End	8.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.973901 °	38.973901 °
				-121.518270 °	-121.518270 °
DWR ID	DWR_RD1001_03_f_2018_23				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Wild growth has been removed, Fall 2018.					

No Photos

LM Start	9.05	Rating **	C	Issue No.	34
LM End	9.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.969102°	38.969271°
				-121.529017°	-121.529583°
DWR ID	DWR_RD1001_03_f_2018_34				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Starter willow trees have been removed from levee slope, Fall 2018.					

No Photos

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
---	--	--	--	--	--

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	10/10/2018 10/10/2018	Sterling York

LM Start	9.31	Rating **	A/W	Issue No.	44
LM End	9.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.970576 °	38.970576 °
				-121.533334 °	-121.533334 °
DWR ID	DWR_RD1001_03_f_2016_44				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries bushes have been trimmed up for access and visibility.					

No Photos

LM Start	10.13	Rating **	C	Issue No.	31
LM End	10.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.967683 °	38.966864 °
				-121.543595 °	-121.543688 °
DWR ID	DWR_RD1001_03_s_2018_31				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Tree limbs have been trimmed for access and visibility, Fall 2018.					

No Photos

LM Start	10.36	Rating **	M	Issue No.	12
LM End	10.40	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.964583 °	38.964010 °
				-121.544967 °	-121.545228 °
DWR ID	DWR_RD1001_03_f_2018_12				
Comment Code					
Inspector Comment					
2017 Site ID: BER 2.5 L					
Status: Eroding					
2017 Field Notes: Erosion pockets have expanded					
Site History: 2011 - Large section of bank has slumped off. RD has flagged and appears to be watching. 2012 - Slopes slightly steeper.					
2013 - Minor new erosion observed.					

Photo 1 of 1 : FA\_2018\_RD1001\_37\_12\_20181114\_00010.jpg



USACE 2013 Photo #1

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
---	--	--	--	--	--

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	10/10/2018 10/10/2018	Sterling York

LM Start	11.08	Rating **	A/W	Issue No.	10
LM End	11.16	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.955070 °	38.954227 °
				-121.549528 °	-121.550592 °
DWR ID	DWR_RD1001_03_f_2018_10				
Comment Code					
Inspector Comment					
2017 Site ID: BER 1.9 L					
Status: Eroding					
2017 Field Notes: Minor new erosion observed.					
Site History: 2011 - Large slumped sections of bank. 2012 - Slopes slightly steeper.					

Photo 1 of 1 : FA\_2018\_RD1001\_37\_10\_20181114\_00007.jpg



USACE 2013 Photo #1

LM Start	11.23	Rating **	M	Issue No.	22
LM End	11.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.953367 °	38.953025 °
				-121.551428 °	-121.551808 °
DWR ID	DWR_RD1001_03_s_2012_22				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	10/10/2018 10/10/2018	Sterling York

LM Start	12.07	Rating **	C	Issue No.	8
LM End	12.16	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.947591 °	38.946477 °
				-121.563390 °	-121.564094 °
DWR ID	DWR_RD1001_03_f_2018_8				
Comment Code					
Inspector Comment					
2017 Site ID: BER 0.8 L					
Status: Repaired					
2017 Field Notes: The 2017 floods caused additional damage to the site, however the site was repaired by locals, with a very steep rock riprap slope. The rock slope appears to be less than 1:1, some rock already appears to be failing .					
Site History: 2006 - Multiple rotational failures in the berm. Erosion is into the levee toe and lower slope. Tension cracks extensive at top of bank. Cohesive toe creates a bench on which failures occur. 2007 - Still steep bank with some berm with pistol-butted reeds. 2012 - Site extended upstream due to additional slumping. Slopes slightly steeper.					

No Photos

LM Start	12.18	Rating **	M	Issue No.	27
LM End	12.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.946248 °	38.946248 °
				-121.564220 °	-121.564220 °
DWR ID	DWR_RD1001_03_s_2012_27				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	0.12	Rating **	C	Issue No.	31
LM End	0.15	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.939388°	38.938985°
				-121.567782°	-121.567772°
DWR ID	DWR_RD1001_04_s_2018_31				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Downed tree from levee slope is removed, Fall 2018.					

No Photos

LM Start	0.13	Rating **	C	Issue No.	57
LM End	0.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.939219 °	38.939219 °
				-121.567789 °	-121.567789 °
DWR ID	DWR_RD1001_04_f_2017_57				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove wild growth from levee slope, Fall 2017.					

No Photos

LM Start	0.14	Rating **	C	Issue No.	3
LM End	0.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.939029 °	38.939029 °
				-121.567771 °	-121.567771 °
DWR ID	DWR_RD1001_04_s_2017_3				
Comment Code					
PR : Prunings					
Inspector Comment					
Pruning's from hinge point have been removed, Fall 2018.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	0.17	Rating **	C	Issue No.	46
LM End	0.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.938715 °	38.938715 °
				-121.567768 °	-121.567768 °
DWR ID	DWR_RD1001_04_f_2016_46				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Blackberry bush has been removed from the landside levee slope, Fall 2018.					

No Photos

LM Start	0.18	Rating **	C	Issue No.	63
LM End	0.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.938534°	38.938534°
				-121.567729°	-121.567729°
DWR ID	DWR_RD1001_04_s_2016_63				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Slope damage caused by ATV has been repaired, Fall 2018.					

No Photos

LM Start	0.20	Rating **	C	Issue No.	42
LM End	0.20	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.938233 °	38.938233 °
				-121.567731 °	-121.567731 °
DWR ID	DWR_RD1001_04_s_2017_42				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove pruning's from fallen tree from both sides of hinge points, Spring 2017.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	0.37	Rating **	A/W	Issue No.	64
LM End	0.37	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.935903 °	38.935903 °
				-121.567250 °	-121.567250 °
DWR ID	DWR_RD1001_04_s_2016_64				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Animal trail is not being used and shows no sign of erosion or sloughing. Fall 2017.					

Photo 1 of 2 : FA\_2018\_RD1001\_38\_64\_20181114\_00077.jpg



View looking downstream of animal trail that is not being used and shows no sign of erosion or sloughing. Fall 2018.

LM Start	<b>0.37</b>	Rating **	A/W	Issue No.	<b>64 (cont)</b>
LM End	<b>0.37</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA\_2018\_RD1001\_38\_64\_20180918\_00040.jpg



View looking downstream of animal trail that is not being used and shows no sign of erosion or sloughing. Spring 2017.

LM Start	0.39	Rating **	C	Issue No.	16
LM End	0.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.935519 °	38.935519 °
				-121.567042 °	-121.567042 °
DWR ID	DWR_RD1001_04_f_2015_16				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Slope damage caused by ATV has been repaired, Fall 2018.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

# Reclamation District No. 1001 Nicolaus

View of three trees with diameters less than 4", landside.

View of a stump in the landside levee slope.

View of ruts caused by vehicle on the landside levee slope.

Page 4 of 21





# Reclamation District No. 1001 Nicolaus

View looking downstream landside LM 3.62 of the well maintained annual vegetation, Fall 2018.

View looking downstream waterside of the well maintained annual vegetation, Fall 2018.

View of landside toe of a stump that needs to be removed.

Page 6 of 21



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

### Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	1.07	Rating **	M	Issue No.	65
LM End	1.07	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.925991 °	38.925991 °
				-121.568282 °	-121.568282 °
DWR ID	DWR_RD1001_04_f_2017_65				
Comment Code					
FW : Firewood					
Inspector Comment					
Remove firewood from levee crown.					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_65\_20180918\_00041.jpg



View looking downstream waterside crown at firewood.

LM Start	1.51	Rating **	M	Issue No.	67
LM End	1.51	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.919643 °	38.919643 °
				-121.569233 °	-121.569233 °
DWR ID	DWR_RD1001_04_f_2017_67				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove pruning's from levee slope.					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_67\_20180918\_00045.jpg



View looking downstream waterside of pruning's on the levee slope.

LM Start	2.44	Rating **	N	Issue No.	71
LM End	2.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.907466 °	38.907466 °
				-121.575413 °	-121.575413 °
DWR ID	DWR_RD1001_04_f_2018_71				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Stumps should be removed from levee slope, Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_71\_20181114\_00084.jpg



View looking landside at stumps from a fallen and removed tree, Fall 2018.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	2.80	Rating **	M	Issue No.	47
LM End	2.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.903896 °	38.903896 °
				-121.580230 °	-121.580230 °
DWR ID	DWR_RD1001_04_s_2017_47				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim limbs 5' for visibility, Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_47\_20180918\_00027.jpg



View looking downstream where limbs need to be trimmed 5' for visibility.

LM Start	4.06	Rating **	M	Issue No.	51
LM End	4.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.892820 °	38.892583 °
				-121.598003 °	-121.598575 °
DWR ID	DWR_RD1001_04_s_2017_51				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Continual vehicles driving up levee slope should be monitored and maintained, Spring 2018.					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_51\_20180918\_00031.jpg



View of continual vehicles driving up levee slope, should be monitored and maintained.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	4.60	Rating **	M	Issue No.	33
LM End	4.65	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.889127 °	38.888603 °
				-121.606858 °	-121.607713 °
DWR ID	DWR_RD1001_04_f_2018_33				
Comment Code					
Inspector Comment					
2017 Site ID: FHR 7.7 L					
Status: Eroding New					
2017 Field Notes: Erosion along bank appears to be due to rapid drawdown condition. Lower bank cobbles are unraveling. Tree popout at upstream end.					
Site History:					

No Photos

LM Start	5.15	Rating **	C	Issue No.	55
LM End	12.19	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.882764°	38.788508°
				-121.611187°	-121.622857°
DWR ID	DWR_RD1001_04_f_2018_55				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation has been mowed in this section, Fall 2018					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	5.18	Rating **	M	Issue No.	70
LM End	5.18	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.882301°	38.882301°
				-121.611296°	-121.611296°
DWR ID	DWR_RD1001_04_f_2017_70				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Continual vehicles driving up levee slope should be monitored and maintained,Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_70\_20180918\_00049.jpg



View looking downstream waterside of the slope that is damage by vehicle traffic.

LM Start	5.22	Rating **	M	Issue No.	78
LM End	5.22	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.881768 °	38.881768 °
				-121.611302 °	-121.611302 °
DWR ID	DWR_RD1001_04_s_2016_78				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Repair damage on slope cause by vehicle traffic, Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_78\_20180918\_00051.jpg



Ruts still there on waterside slope due to vehicles.

LM Start	5.55	Rating **	A/W	Issue No.	79
LM End	5.55	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.877256°	38.877256°
				-121.613073°	-121.613073°
DWR ID	DWR_RD1001_04_s_2016_79				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

## Reclamation District No. 1001 Nicolaus

Page 11 of 21

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	5.61	Rating **	A/W	Issue No.	35 (cont)	
LM End		Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.876374 °		°
				-121.613425 °		°
DWR ID	DWR_RD1001_04_f _ 2017_35					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:139						
Site Designation:LMA-19						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:6/6/2017						
Notes: Several small erosion sites along 2 miles.						

Photo 3 of 3 : LEVAL\_FA\_2018\_139\_1155.jpg



LM Start	5.80	Rating **	A/W	Issue No.	28
LM End	5.93	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.874113 °	38.872373 °
				-121.615380 °	-121.616504 °
DWR ID	DWR_RD1001_04_f_2018_28				
Comment Code					
Inspector Comment					
2017 Site ID: FHR 6.6 L					
Status: Eroding					
2017 Field Notes: Sandy bank slope is unraveling.					
Site History: 2011 - Erosion pockets from tree popouts. Sections of the lower bank have slumped off. 2013 - Scallop from tree popouts no longer visible on site. Minor new erosion at the middle of the bank.					
2015 - Fresh erosion from human usage.					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_28\_20181114\_00037.jpg



USACE 2013 Photo #1

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	6.42	Rating **	U	Issue No.	18
LM End	6.51	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.865875 °	38.864706 °
				-121.619983 °	-121.620813 °
DWR ID	DWR_RD1001_04_f_2018_18				
Comment Code					
Inspector Comment					
2017 Site ID: FHR 6.0 L					
Status: Critical					
2017 Field Notes: Upgraded to critical, entire bank slope is slumping, with near vertical face					
Site History: 2011 - Tall slumping sections. Scour around trees has exposed most of the roots. 2016 - Recent large slope failure observed.					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_18\_20181114\_00032.jpg



USACE 2013 Photo #1

LM Start	6.57	Rating **	A/W	Issue No.	15
LM End	6.77	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.863946 °	38.861558 °
				-121.621388 °	-121.623316 °
DWR ID	DWR_RD1001_04_f_2018_15				
Comment Code					
Inspector Comment					
2017 Site ID: FHR 5.8 L					
Status: Eroding					
2017 Field Notes: slope is not stable enough to maintain vegetation growth, new erosion					
Site History: 2011 - Large slumped sections on the lower bank. 2012 - New cracks observed.					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_15\_20181114\_00030.jpg



USACE 2013 Photo #1

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	--	---

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	7.06	Rating **	M	Issue No.	40
LM End	7.06	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.857797 °	38.857797 °
				-121.625912 °	-121.625912 °
DWR ID	DWR_RD1001_04_s_2018_40				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Repair tire ruts on levee slope.					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_40\_20180918\_00021.jpg



View looking downstream waterside at deep tire ruts in levee slope.

LM Start	7.08	Rating **	A/W	Issue No.	52
LM End	7.08	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.857574 °	38.857574 °
				-121.626083 °	-121.626083 °
DWR ID	DWR_RD1001_04_s_2017_52				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries bush has been trimmed for access and visibility, Spring 2018.					

No Photos

LM Start	7.32	Rating **	C	Issue No.	45
LM End	7.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.854324 °	38.854324 °
				-121.627970 °	-121.627970 °
DWR ID	DWR_RD1001_04_s_2018_45				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Limbs are trimmed for access and visibility, Fall 2018.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	--	---

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

### Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	7.47	Rating **	U	Issue No.	14
LM End	7.79	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.852394 °	38.848004 °
				-121.629231 °	-121.630873 °
DWR ID	DWR_RD1001_04_f_2018_14				
Comment Code					
Inspector Comment					
2017 Site ID: FHR 5.0 L					
Status: Critical					
2017 Field Notes: Upgraded to critical, significant new erosion, entire bank slope is vertical with non cohesive soils.					
Site History: 2000 - Steep bank off berm with some slumps and fallen trees, continued erosion. 2002 - Site lengthened upstream and downstream due to vertical bank along most of the reach. 2010 - Site extended upstream. 2011 - Minimal new erosion. 2012 - Site extended on the upstream end, new tree pop-out, and bank erosion continues to worsen. 2013 - Minor new erosion at the toe and top of bank.					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_14\_20181114\_00013.jpg



USACE 2013 Photo #1

LM Start	7.60	Rating **	A/W	Issue No.	36
LM End	7.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.850521 °	38.850521 °
				-121.629423 °	-121.629423 °
DWR ID	DWR_RD1001_04_f_2015_36				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Ramp has vertical cut into the levee prism.					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_36\_20180918\_00019.jpg



View of vertical cut for ramp in the landside levee slope looking upstream.

**\* Location**

LS : Land Side    N/A : Not Applicable  
 WS : Water Side  
 CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
 M : Minimally Acceptable        C : Corrected  
 U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
 Ob : Design & System Obsolescence  
 En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	8.57	Rating **	A/W	Issue No.	13
LM End	8.97	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.836966 °	38.831498 °
				-121.634128 °	-121.636371 °
DWR ID	DWR_RD1001_04_f _ 2018_13				
Comment Code					
Inspector Comment					
2017 Site ID: FHR 3.8 L					
Status: Eroding					
2017 Field Notes: New erosion along lower slope					
Site History: 2006 - Sandy, silty bank with intermittent pockets of erosion. Rotational failure and tree pop outs are most of the problem. Some upper slope fluvial erosion. 2010 - Site extended upstream. The lower Feather may benefit from a regional repair. 2011 - Site combined with 3.6. Minimal new erosion. 2013 - New erosion observed at bank toe. Trees on site now have exposed roots.					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_13\_20181114\_00012.jpg



USACE 2013 Photo #1

LM Start	8.65	Rating **	A/W	Issue No.	12
LM End	8.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.835766 °	38.834778 °
				-121.633966 °	-121.634316 °
DWR ID	DWR_RD1001_04_s_2012_12				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries bush has been trimmed for access and visibility, Spring 2018.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	11.05	Rating **	A/W	Issue No.	22
LM End	11.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.802875 °	38.802000 °
				-121.632862 °	-121.632763 °
DWR ID	DWR_RD1001_04_s_2012_22				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries bush has been trimmed for access and visibility, Spring 2018.					

No Photos

LM Start	11.18	Rating **	M	Issue No.	10	
LM End	11.37	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 USACE Erosion Survey, DRAFT			38.800920	°	
				-121.633050	°	
DWR ID	DWR_RD1001_04_f_2018_10					
Comment Code						
Inspector Comment						
2017 Site ID: FHR 1.0 L						
Status: Eroding						
2017 Field Notes: Significant new erosion along lower bank.						
Site History: 2000 - Site is relatively stable except for some toe erosion at the upstream end, recommend monitoring the upstream end. 2004 - Some new block failures (10ft deep) at the toe of the upstream end.						
2007 - Some minor new slumping at the waterline. 2013 - Minor new erosion along the bank toe.						

Photo 1 of 1 : FA\_2018\_RD1001\_38\_10\_20181114\_00007.jpg



USACE 2013 Photo #1

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	11.24	Rating **	A/W	Issue No.	23
LM End	11.24	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.800174 °	38.800174 °
				-121.632227 °	-121.632227 °
DWR ID	DWR_RD1001_04_s_2012_23				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries bush has been trimmed for access and visibility, Spring 2018.					

No Photos

LM Start	11.59	Rating **	M	Issue No.	9
LM End	11.75	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.795455 °	38.793394 °
				-121.629903 °	-121.628156 °
DWR ID	DWR_RD1001_04_f_2018_9				
Comment Code					
Inspector Comment					
2017 Site ID: FHR 0.6 L					
Status: Eroding					
2017 Field Notes: Further toe erosion, with sections of sand deposition.					
Site History: 1997- Deposits over top of cobble on the upper slope.					
2000 - Old cobble site in poor shape; some toe retreat, but little change; steep bank. 2010 - Site extended upstream due to new toe erosion.					
2012 - Minor new erosion at toe, new slumping, animals holes and cracks observed.					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_9\_20181114\_00002.jpg



USACE 2013 Photo #1

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	12.32	Rating **	A/W	Issue No.	24
LM End	12.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.787355 °	38.786507 °
				-121.621165 °	-121.619837 °
DWR ID	DWR_RD1001_04_s _ 2012_24				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries bush has been trimmed for access and visibility, Spring 2018.					

No Photos

LM Start	12.35	Rating **	C	Issue No.	44
LM End	13.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.787132 °	38.781444 °
				-121.620587 °	-121.606549 °
DWR ID	DWR_RD1001_04_f _ 2018_44				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation has been mowed in this section, Fall 2018.					

No Photos

LM Start	12.65	Rating **	A/W	Issue No.	26
LM End	13.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.784513 °	38.781862 °
				-121.616045 °	-121.607855 °
DWR ID	DWR_RD1001_04_s _ 2012_26				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries bush has been trimmed for access and visibility, Spring 2018.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

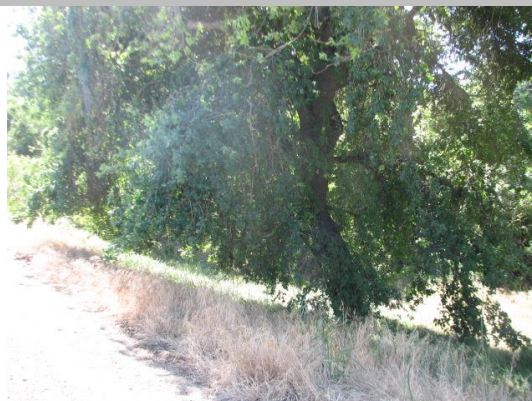
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	10/26/2018 10/26/2018	Sterling York

LM Start	12.67	Rating **	A/W	Issue No.	11
LM End	13.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.784579 °	38.782150 °
				-121.615689 °	-121.607918 °
DWR ID	DWR_RD1001_04_f_2013_11				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries bush has been trimmed for access and visibility, Spring 2018.					

No Photos

LM Start	12.82	Rating **	M	Issue No.	151
LM End	12.82	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.783930 °	38.783930 °
				-121.612952 °	-121.612952 °
DWR ID	DWR_RD1001_04_s_2012_151				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim tree limbs for access and visibility, Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD1001\_38\_151\_20180918\_00054.jpg



Trees need to be trimmed up at least 5 feet.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	10/09/2018 10/09/2018	Sterling York

LM Start	0.00	Rating **	A	Issue No.	12
LM End	5.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.781231 °	38.831047 °
				-121.605450 °	-121.529827 °
DWR ID	DWR_RD1001_05_f_2018_12				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD1001\_39\_12\_20181114\_00019.jpg



View looking upstream landside at the well maintained annual vegetation, Fall 2018.

LM Start	0.00	Rating **	A	Issue No.	14
LM End	5.38	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.781231 °	38.831047 °
				-121.605450 °	-121.529827 °
DWR ID	DWR_RD1001_05_f_2018_14				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD1001\_39\_14\_20181114\_00021.jpg



View looking upstream waterside at the well maintained annual vegetation, Fall 2018.

LM Start	1.78	Rating **	M	Issue No.	5
LM End	1.85	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.799037°	38.799733°
				-121.582706°	-121.581585°
DWR ID	DWR_RD1001_05_f_2018_5				
Comment Code					
Inspector Comment					
2017 Site ID: NCC 1.9 L					
Status: Eroding New					
2017 Field Notes: Erosion along mid bank and sections of slumped bank.					
Site History:					

No Photos

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

### Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	10/09/2018 10/09/2018	Sterling York

LM Start	2.24	Rating **	M	Issue No.	6
LM End	2.34	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.803327 °	38.804206 °
				-121.575993 °	-121.574529 °
DWR ID	DWR_RD1001_05_f_2018_6				
Comment Code					
Inspector Comment					
2017 Site ID: NCC 2.4 R					
Status: Eroding					
2017 Field Notes: Site renamed, previously mislabeled as NCC 3.0.					
Erosion along mid bank slope.					
Site History: 2006 - Noted old saturation slumping of upper levee slope that is into the levee core (near high water line). 2011 - Erosion is into the top of the levee. This site is actually located at LM 2.4. 2016 - Site extended downstream. Slumping of entire middle levee section.					

No Photos

LM Start	2.31	Rating **	M	Issue No.	11
LM End	2.34	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.803877 °	38.804206 °
				-121.575053 °	-121.574529 °
DWR ID	DWR_RD1001_05_f_2018_11				
Comment Code					
Inspector Comment					
2017 Site ID: NCC 3.0 R					
Status: Eroding					
2017 Field Notes: Site is part of the extended inventory, last inspected 2011.					
Site History: 2006 - Noted old saturation slumping of upper levee slope that is into the levee core (near high water line). 2011 - Erosion is into the top of the levee. This site is actually located at LM 2.5.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	10/09/2018 10/09/2018	Sterling York

LM Start	2.68	Rating **	M	Issue No.	9
LM End	3.13	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.807180°	38.811122°
				-121.569523°	-121.562873°
DWR ID	DWR_RD1001_05_f_2018_9				
Comment Code					
Inspector Comment					
2017 Site ID: NCC 2.9 R					
Status: Eroding New					
2017 Field Notes: Hummocky levee face, slumping upper bank.					
Site History: 2016 - Slumping of upper bank slope.					

No Photos

LM Start	5.05	Rating **	A/W	Issue No.	8	
LM End	5.06	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			38.828100°	38.828188°	
				-121.534740°	-121.534625°	
DWR ID	DWR_RD1001_05_f_2017_8					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:493						
Site Designation:RD 1001-03						
Repair Type: Erosion						
Rating:Serious						
Field Date:7/17/2017						
Notes: Serious per senior review						

Photo 1 of 3 : LEVAL\_FA\_2018\_493\_1759.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

### Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	10/09/2018 10/09/2018	Sterling York

LM Start	5.05	Rating **	A/W	Issue No.	8 (cont)	
LM End	5.06	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.828100 °	38.828188 °	
				-121.534740 °	-121.534625 °	
DWR ID	DWR_RD1001_05_f_2017_8					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:493						
Site Designation:RD 1001-03						
Repair Type: Erosion						
Rating:Serious						
Field Date:7/17/2017						
Notes: Serious per senior review						

LM Start	<b>5.05</b>	Rating **	A/W	Issue No.	<b>8 (cont)</b>
LM End	<b>5.06</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : LEVAL\_FA\_2018\_493\_1762.jpg



Photo 3 of 3 : LEVAL\_FA\_2018\_493\_1763.jpg

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

## Reclamation District No. 1001 Nicolaus

View looking upstream waterside at the well maintained annual vegetation, Fall 2018.

Page 1 of 4

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/09/2018 10/09/2018	Sterling York

LM Start	2.05	Rating **	A/W	Issue No.	8
LM End	2.05	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.860002 °	38.860002 °
				-121.524873 °	-121.524873 °
DWR ID	DWR_RD1001_06_s_2012_8				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Crown where there is cross traffic. Monitor this area and fix as needed.					

Photo 1 of 1 : FA\_2018\_RD1001\_40\_8\_20180918\_00003.jpg



View of crown where there is cross traffic looking upstream. Monitor this area and fix as needed.

LM Start	4.04	Rating **	A/W	Issue No.	7
LM End	4.04	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.888803 °	38.888803 °
				-121.524738 °	-121.524738 °
DWR ID	DWR_RD1001_06_s_2012_7				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Crown where there is cross traffic. Monitor this area and fix as needed.					

Photo 1 of 1 : FA\_2018\_RD1001\_40\_7\_20180918\_00002.jpg



View of crown where there is cross traffic looking upstream. Monitor this area and fix as needed.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/09/2018 10/09/2018	Sterling York

LM Start	4.33	Rating **	A/W	Issue No.	19
LM End	4.33	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.892999 °	38.892999 °
				-121.524711 °	-121.524711 °
DWR ID	DWR_RD1001_06_f_2013_19				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Crown where there is cross traffic. Monitor this area and fix as needed.					

Photo 1 of 1 : FA\_2018\_RD1001\_40\_19\_20180918\_00005.jpg



View of crown where there is cross traffic looking upstream. Monitor this area and fix as needed.

LM Start	4.38	Rating **	C	Issue No.	22
LM End	4.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.893728 °	38.893728 °
				-121.524715 °	-121.524715 °
DWR ID	DWR_RD1001_06_f_2016_22				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
A stump at the landside levee toe has been removed, Fall 2018.					

No Photos

LM Start	4.48	Rating **	M	Issue No.	17
LM End	4.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.895234 °	38.895234 °
				-121.524514 °	-121.524514 °
DWR ID	DWR_RD1001_06_f_2017_17				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim tree limbs for access and visibility, Fall 2018.					

Photo 1 of 1 : FA\_2018\_RD1001\_40\_17\_20180918\_00004.jpg



View looking upstream landside at trees that need to be trimmed for access and visibility.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

### Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/09/2018 10/09/2018	Sterling York

LM Start	4.71	Rating **	M	Issue No.	24
LM End	4.71	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.896310 °	38.896310 °
				-121.520674 °	-121.520674 °
DWR ID	DWR_RD1001_06_f_2016_24				
Comment Code					
DE : Debris					
Inspector Comment					
Old peace of pipe still lying on landside levee slope, Fall 2018.					

LM Start	<b>4.71</b>	Rating **	M	Issue No.	<b>24 (cont)</b>
LM End	<b>4.71</b>	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : FA\_2018\_RD1001\_40\_24\_20181114\_00041.jpg



View of an old piece of pipe still lying on landside levee slope looking downstream. Fall 2018.

Photo 2 of 2 : FA\_2018\_RD1001\_40\_24\_20180918\_00008.jpg



View of an old piece of pipe lying on landside levee slope looking upstream. Fall 2017.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---